Species Tag:	9001	Species Name:	LiD
Version:	1		Lithium deuteride,
Date:	Aug 1995		^{7}Li, ^{2}H isotopes
Contributor:	M. L. Delitsky		$\nu = 0, 1$
	H. M. Pickett		
Lines Listed:	40	Q(300.0)=	50.812
Freq. (GHz) <	4772	Q(225.0)=	37.915
Max. J:	20	Q(150.0)=	25.314
LOGSTR0=	-20	Q(75.00)=	12.807
LOGSTR1=	-100	Q(37.50)=	6.573
Isotope Corr.:	-3.85	Q(18.75)=	3.469
Egy. (cm^{-1}) >	0.0	Q(9.375)=	1.938
$\mu_a =$	5.882	A=	
$\mu_b =$		B=	125538.0
$\mu_c =$		C=	

The transition frequencies were taken from: Maki, Olson and Thompson, 1990, J. Mol. Spect. **144**, 257. Plummer, Herbst and De Lucia , 1984, J.Chem. Phys., **81**, 4893. E. F. Pearson and W. Gordy, 1969, Phys. Rev. **177**, 59.

The observed line in Plummer, *et al.* for $J = 1 \leftarrow 0$ $\nu = 0$ was a typographical error (Herbst, personal communication, 8/95). The correct 251043.53 MHz line frequency of Pearson and Gordy was used in our calculation.

The dipole moment is from L. Warton, L. P. Gold and W. Klemperer, 1960, J. Chem. Phys. **33**, 1255. It has been assumed to be the same for all isotopomers.